## **Amendments to the Claims**

The following claims will replace all prior versions of the claims in this application:

- 1. (currently amended) A directed light source for efficient light emission, the light source comprising:
  - a planar substrate having a top surface and an opposite bottom surface;
  - a light emitting device located on the top surface of the planar substrate;

a clear reflector having a back surface facing the top surface of the planar substrate and a semi-cylindrical front surface <u>having a vertical axis</u>, the reflector including a reflecting top surface and an opposite and quadrilaterally symmetrical reflecting bottom surface, the reflector causing light from the light emitting device to be directed out from the semi-cylindrical front surface at a predefined angle in a substantially horizontal plane.

- 2. (original) The light source of claim 1 wherein the reflector is fabricated from plastic.
- 3. (original) The light source of claim 1 wherein the light emitting device is a light emitting diode (LED).
- 4. (original) The light source of claim 1 further comprising a heat sink coupled to the bottom surface of the planar substrate.

- 5. (original) The light source of claim 1 further comprising a cylindrical toroidal lens located on the semi-cylindrical front surface which collimates light substantially parallel to the horizontal plane.
- 6. (original) The light source of claim 1 wherein the top and bottom reflecting surfaces are angled such to create total internal reflection from light from the light emitting device.
- 7. (original) The light source of claim 1 wherein the top and bottom reflecting surfaces have a specular reflective layer.
- 8. (original) The light source of claim 7 wherein the specular reflective layer is an evaporated aluminum coating.
- 9. (original) The light source of claim 7 wherein the specular reflective layer is a sprayed chrome finish.

Please cancel claim 10

11. (currently amended) The light source of claim 1 wherein a lens is formed within the reflector to focus beams from the light on the a horizontal plane.

- 12. (currently amended) The light source of claim 1 wherein an aperture is installed over some a part of the semi-cylindrical front surface to restrict the angle of light emission.
- 13. (currently amended) A reflector for focusing light emitted from a light source in a generally planar direction, the reflector comprising:
  - a semi-cylindrical front surface having a vertical axis;
  - a back surface with an indentation which covers the light source;
  - a top reflecting surface divided into two quadrants;
- a bottom reflecting surface divided into two quadrants, wherein the top quadrants and bottom quadrants are symmetrical in shape and reflect light emitted from the light source in a substantially horizontal plane <u>out of the semi-cylindrical front surface</u>.
- 14. (original) The reflector of claim 13 further comprising a cylindrical toroidal lens on the semi-cylindrical front surface, the cylindrical toroidal lens shaped to collimate light emitted from the light source.
- 15. (original) The reflector of claim 13 further comprising a lens formed between the indentation and semi-cylindrical front surface, the lens focusing light emitted by the light source in the substantially horizontal plane.

- 16. (original) The reflector of claim 13 wherein the top and bottom reflecting surfaces are angled such to create total internal reflection from light from the light emitting device.
- 17. (original) The reflector of claim 13 wherein the top and bottom reflecting surfaces have a specular reflective layer.
- 18. (original) The reflector of claim 17 wherein the specular reflective layer is an evaporated aluminum coating.
- 19. (original) The reflector of claim 17 wherein the specular reflective layer is chrome.
- 20. (original) The reflector of claim 13 wherein facets are formed on the top and bottom reflecting surfaces.
- 21. (original) The reflector of claim 13 wherein an aperture covers part of the semi-cylindrical front surface to restrict light emission to a specific angle.
- 22. (original) A reflector for focusing light emitted from a light source in a generally planar direction, the reflector comprising:

a curved front surface rotationally symmetrical about a vertical axis;

a back surface in proximity to the light source;

a top reflecting surface divided into two quadrants;

a bottom reflecting surface divided into two quadrants, wherein the top quadrants and bottom quadrants are symmetrical in shape and reflect light emitted from the light source in a substantially horizontal plane out of the front surface.